

Title (en)
Antenna

Title (de)
Antenne

Title (fr)
Antenne

Publication
EP 1679763 A2 20060712 (EN)

Application
EP 05025170 A 20051117

Priority
• JP 2004379963 A 20041228
• JP 2005246049 A 20050826

Abstract (en)
A transmission line (4) includes transmission lines (4A, 4B) parallel and perpendicular, respectively, to a flat portion (2A) of a reflector (2), and the parallel transmission line (4A) and the flat portion (2A) form a first strip line and the perpendicular transmission line (4B) and a conductive plate (5A, 5B) similarly form a second strip line. Radiators (6A, 6B) and the transmission line (4) have a radiation impedance and a characteristic impedance, respectively, both set at 150 Ω when the antenna's output terminal has a reference impedance of 75 Ω . If the parallel transmission line (4A) has a midpoint serving as the output terminal of the antenna this portion's receiving current is divided in two so that an impedance of half that of the strip line can be provided and a coaxial cable can directly be connected to the transmission line (4). A matcher or a mixer is not included in the antenna (1), and matching and mixing losses can be prevented.

IPC 8 full level
H01Q 21/06 (2006.01); **H01Q 9/26** (2006.01)

CPC (source: EP US)
H01Q 9/26 (2013.01 - EP US); **H01Q 21/062** (2013.01 - EP US)

Citation (applicant)
• JP 2005246049 A 20050915 - INOUE KOGYO KK
• JP 2000013130 A 20000114 - TAKASHIMA HIROSHI
• JP 2004282319 A 20041007 - TAKATSUKI HIDETOSHI, et al
• JP 2001085928 A 20010330 - YAMAMOTO KYOSHI
• JP H0563435 A 19930312 - TOYOTA CENTRAL RES & DEV, et al

Cited by
EP1983606A1; EP2299537A3; US7511670B2

Designated contracting state (EPC)
DE ES FR GB IT PT

DOCDB simple family (publication)
EP 1679763 A2 20060712; EP 1679763 A3 20060816; EP 1679763 B1 20080109; DE 602005004251 D1 20080221;
JP 2006211643 A 20060810; JP 4519034 B2 20100804; US 2006139230 A1 20060629; US 7205955 B2 20070417

DOCDB simple family (application)
EP 05025170 A 20051117; DE 602005004251 T 20051117; JP 2005246049 A 20050826; US 23925705 A 20050930